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>Title: **CA2265692C: CODEUR / DECODEUR DE PROTOCOLES DE RESEAUX MULTIPLES ET UNITE DE TRAITEMENT DE DONNEES**

Derwent Title: Multiple network protocol encoder-decoder - has network protocol layer, data handler, operating system state machine and memory manager, and protocol handler which parses and strips header information from each packet immediately [\[Derwent Record\]](#)

Country: CA Canada

Kind: C Patent (Law 1989) (See also: CA2265692AA)

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Published / Filed: 2001-08-07 / 1997-09-26

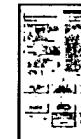
Application Number: CA1997002265692

IPC Code: H04J 3/16; H04J 3/22;

ECLA Code: None

Priority Number: 1996-10-31 [US1996000742085](#)
1997-09-26 [WO1997000017257](#)

Abstract: A multiple network protocol encoder/decoder comprising a network protocol layer (101), data handler (102), O.S. State machine (104), and memory manager (103) state machines implemented at a hardware gate level. Network packets are received from a physical transport level mechanism by the network protocol layer state machine (101) which decodes network protocols such as TCP, IP, user Data Protocol (UDP), PPP, and Raw Socket concurrently as each byte is received. Each protocol handler parses and strips header information immediately from the packet, requiring no intermediate memory. The resulting data are passed to the data handler (102) which consists of data state machines (104) that decode data formats such as email, graphics, Hypertext Transfer Protocol (HTTP), Java, and Hypertext Markup Language (HTML). Each data state machine (104) reacts accordingly to the pertinent data, and any data that are required by more than one data state machine (104) is provided to each state machine concurrently, and any data required more than once by a specific



data state machine, are placed in a specific memory location (206) with a pointer designating such data; thereby ensuring minimal memory usage. Resulting display data are immediately passed to a display controller (205). Any outgoing network packets are created by the data state machines and passed through the network protocol state machine which adds header information and forwards the resulting network packet via a transport level mechanism.

INPADOC
Legal Status:

Gazette date	Code	Description (remarks)	List all possible codes for CA
2003-04-03	AFNE +	National phase entry (1999-03-12)	
2003-04-03	EEER +	Examination request (2000-11-30)	

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Designated Country: AL AM AP AZ BA BB BG BR BY CA CU CZ EE GE HU ID IL IS KG KP KR KZ LC LK LR LT LV MD MG MK MN MX DE FR GB IT

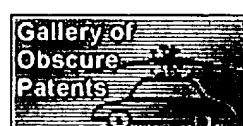
Family:

PDF	Publication	Pub. Date	Filed	Title
 WO9819412A1	1998-05-07	1997-09-26	MULTIPLE NETWORK PROTOCOL ENCODER/DECODER AND DATA PR	
 US6034963	2000-03-07	1996-10-31	Multiple network protocol encoder/decoder processor	
 JP2001503577T2	2001-03-13	1997-09-26		
 EP0935855A4	2000-05-17	1997-09-26	MULTIPLE NETWORK PROTOCOL ENCODER/DECODER AND DATA PR	
 EP0935855A1	1999-08-18	1997-09-26	MULTIPLE NETWORK PROTOCOL ENCODER/DECODER AND DATA PR	
 CN1237295A	1999-12-01	1997-09-26	MULTIPLE NETWORK PROTOCOL ENCODER/DECODER AND DATA PR	
 CA2265692C	2001-08-07	1997-09-26	MULTIPLE NETWORK PROTOCOL ENCODER/DECODER AND DATA PR	
 CA2265692AA	1998-05-07	1997-09-26	MULTIPLE NETWORK PROTOCOL ENCODER/DECODER AND DATA PR	
 AU4595297A1	1998-05-22	1997-09-26	MULTIPLE NETWORK PROTOCOL ENCODER/DECODER AND DATA PR	
 AU0723724B2	2000-09-07	1997-09-26	MULTIPLE NETWORK PROTOCOL ENCODER/DECODER AND DATA PR	

10 family members shown above

Other Abstract
Info:

DERABS G1998-272591



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